

WHAT IS CLAIMED IS:

- 1 1. A control unit for electric power steering, comprising:
2 motor driving means for energizing an electric motor to operate a steering
3 mechanism secondarily;
4 motor current detecting means for detecting a current flowing in said
5 electric motor;
6 control means for implementing control so that a current detection output
7 obtained by said motor current detecting means reaches a target current value to
8 said motor driving means determined on the basis of a steering torque in said
9 steering mechanism;
10 temperature detecting means for detecting a temperature of said motor
11 current detecting means; and
12 correction means for correcting an output of said motor current detecting
13 means on the basis of an output of said temperature detecting means.

- 1 2. The unit according to claim 1, further comprising characteristic data
2 storing means for storing output characteristic data on said motor current
3 detecting means with respect to the output of said temperature detecting means,
4 said correction means correcting the output of said motor current detecting means
5 on the basis of the output of said temperature detecting means and said output
6 characteristic data on said motor current detecting means stored in said
7 characteristic data storing means.

- 1 3. The unit according to claim 2, wherein said characteristic data storing
2 means stores characteristic data obtained on the basis of the outputs of said motor
3 current detecting means with respect to the outputs of said temperature detecting
4 means under two or more temperature conditions.

- 1 4. The unit according to claim 2, wherein said characteristic data storing
2 means is constructed with a data-rewritable non-volatile memory.
- 1 5. The unit according to claim 1, wherein said motor current detecting means
2 and said temperature detecting means are arranged on the same semiconductor.
- 1 6. The unit according to claim 1, wherein said temperature detecting means is
2 placed in the vicinity of said motor current detecting means.
- 1 7. The unit according to claim 5, wherein, on said semiconductor, said
2 temperature detecting means is located in the close vicinity of said motor current
3 detecting means.